ODS 631

OBSTRUCTION DATA SHEET

ODS 631
FORT SMITH MUNICIPAL AIRPORT
FORT SMITH, ARKANSAS

DIGITIZED FROM

OC 631
SURVEYED DECEMBER 1988
11TH EDITION

PREPARED AND DISTRIBUTED BY
THE NATIONAL OCEAN SERVICE
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OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA Nr. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS (and OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)

2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

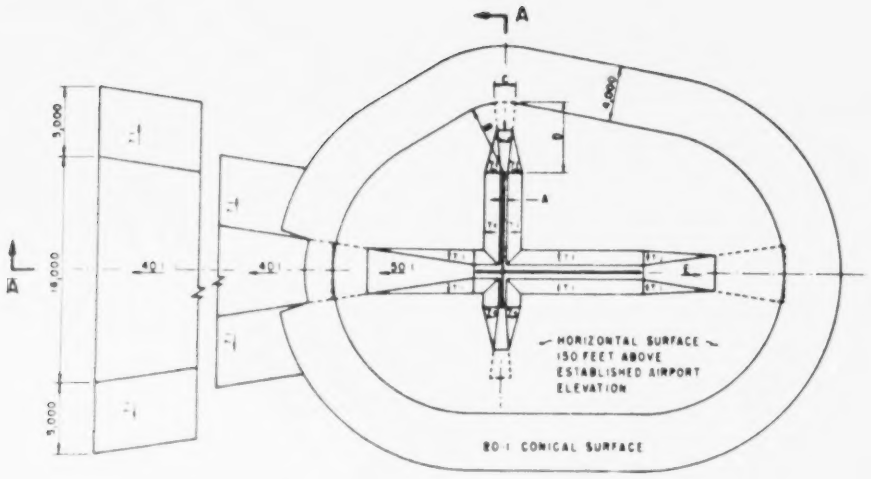
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C .... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D .... Nonutility runway - nonprecision instrument approach with visibility minimums as low as 3/4 mile
PIR ..... Precision instrument runway
SUPLC ... Supplemental C underlying a B(V)

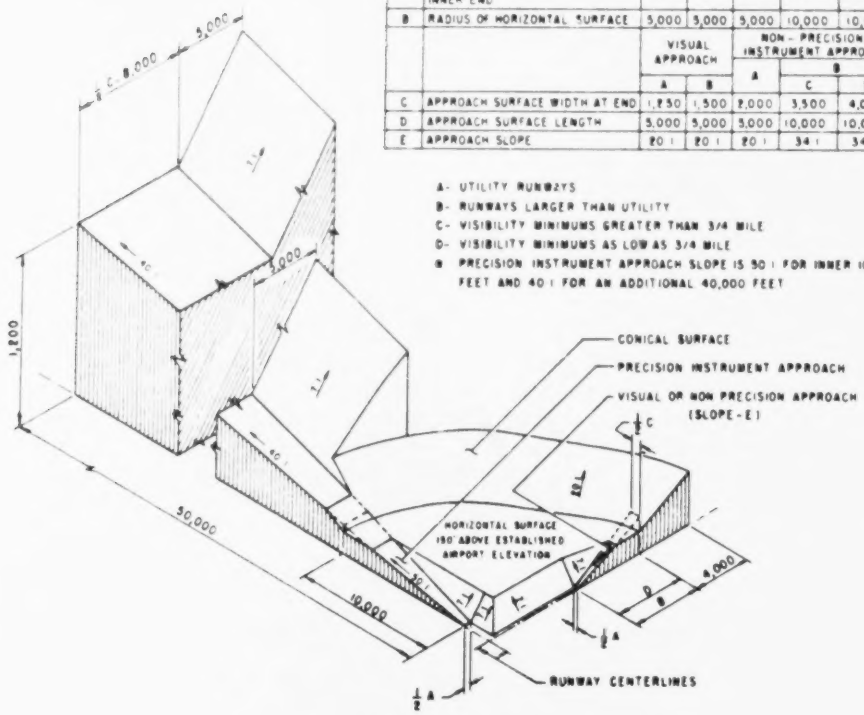
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B		
					C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
					C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

A- UTILITY RUNWAYS
B- RUNWAYS LARGER THAN UTILITY
C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

x^{1}	x^{2} XXXX/XXXX^{3}	XXXXXX.XXX^{4}	XXXXXXX.XXX^{4}	XXXXXXX^{5}	XXXX/XXXX^{6}	XXXXXX.XXX^{7}	XXXXXXX.XXX^{7}

OBJECT	LAT	LONG	A[8]	ELEV[9]	AGL[10]	HAR[11]	HAT[11]	HAA[11]	DEND[12]	DTHR[12]	DCLN[12]	PNTR[13]
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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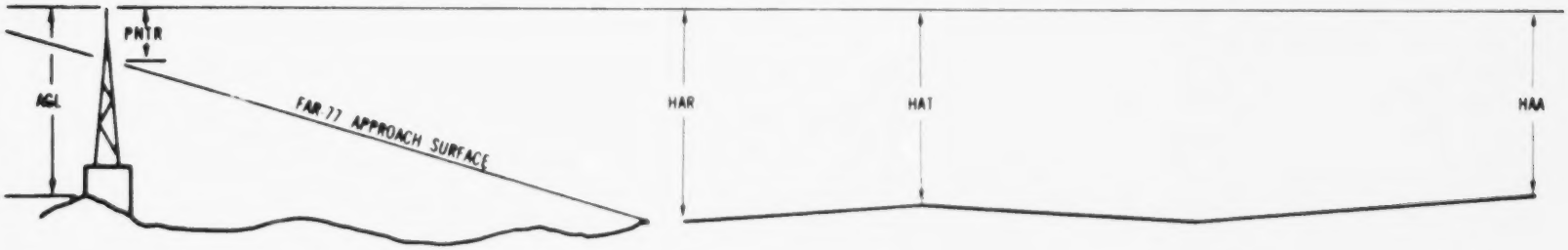

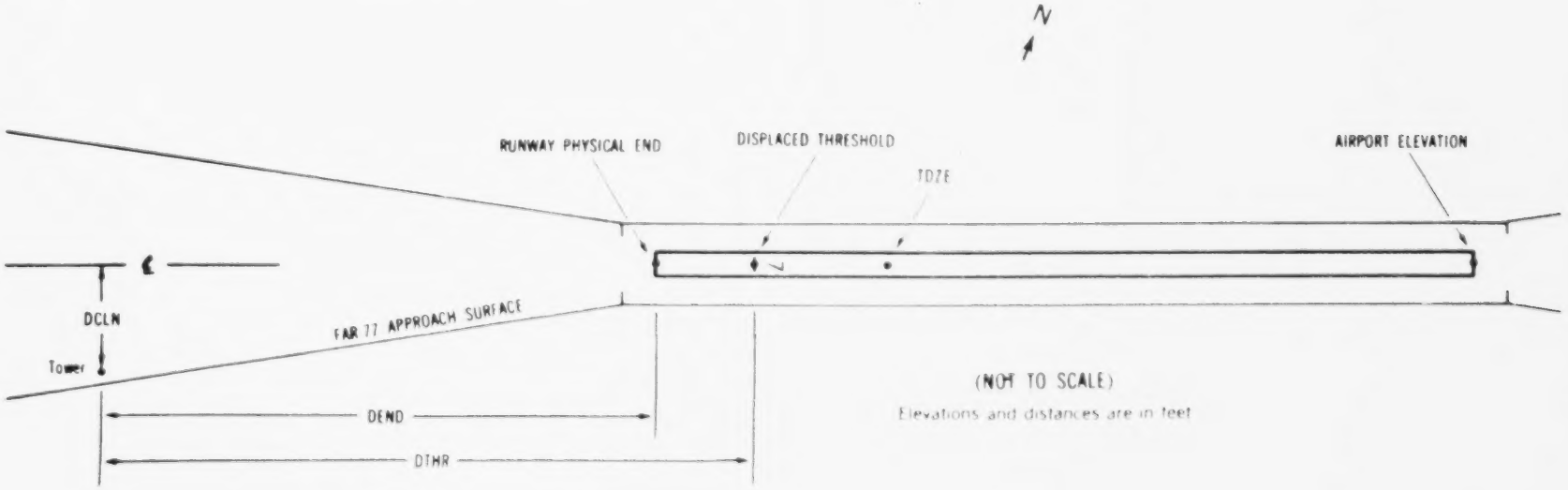

EXPLANATION OF FOOTNOTES

[1] Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary area of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.

[2] For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)

[3] Reference runway approach physical end elevation/touchdown zone elevation

[4] Latitude and longitude of reference runway approach physical end

[5] Reference runway geodetic azimuth reckoned clockwise from south

[6] Reference runway displaced threshold elevation/touchdown zone elevation

[7] Latitude and longitude of reference runway displaced threshold

[8] Accuracy Code:

Horizontal	Vertical
1 = 20	A = 2
2 = 40	B = 5
	C = 20

[9] Mean Sea Level (MSL) elevation at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.

[10] Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ±10 feet.

[11] HAA - Height above airport
HAR - Height above reference runway approach physical end
HAT - Height above reference runway touchdown zone elevation

[12] DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway threshold
DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft.

A negative value for DEND or DTHR indicates object is in primary area on roll-out side of zero distance point.

[13] PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC0631

AIRPORT ELEVATION 469

1 C 448/448 351955.803N 09422 8.720W 2011001

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	352043.78	0942146.05	1A	447		-1	-1	-22	-5202		0R	0
FENCE	352041.04	0942144.00	1A	447		-1	-1	-22	-5005		258R	0
FENCE	352021.59	0942153.41	1A	446		-2	-2	-23	-2890		241R	1
FENCE	351953.19	0942206.85	1A	449		1	1	-20	190		240R	1
RAILROAD	351948.70	0942207.89	1A	469		21	21	0	645		324R	8
RAILROAD	351948.80	0942212.06	1A	471		23	23	2	760		3L	7
POLE	351949.44	0942216.21	1A	466		18	18	-3	824		346L	0
POLE	351936.25	0942212.28	1A	501		53	53	32	1950		438R	2

19 SUPLC 447/447 352041.932N 0942146.920W 0211014

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE	351953.19	0942206.85	1A	449		2	2	-20	-5192		240L	1
FENCE	352021.59	0942153.41	1A	446		-1	-1	-23	-2112		241L	1
FENCE	352041.04	0942144.00	1A	447		0	0	-22	3		258L	0
GROUND	352043.78	0942146.05	1A	447		0	0	-22	200		0L	0
POLE	352054.58	0942144.92	1A	474		27	27	5	1252		307R	-4
TREE	352055.53	0942143.96	1A	500		53	53	31	1371		267R	19
POLE	352054.49	0942140.61	1A	472		25	25	3	1373		29L	-10
TREE	352055.14	0942140.40	1A	490		43	43	21	1441		21L	7
TREE	352105.34	0942142.42	1A	516		69	69	47	2341		507R	6
CHURCH SPIRE	352105.96	0942133.56	1A	512		65	65	43	2665		155L	-8
TREE	352108.49	0942136.98	1A	513		66	66	44	2802		202R	-11
ANTENNA ON OL TOWER	352124.41	0942128.37	1A	584		137	137	115	4560		119R	9
TREE	352127.51	0942136.45	1A	594		147	147	125	4611		856R	17
TREE	352127.81	0942132.21	1A	604		157	157	135	4766		539R	23
TREE	352126.00	0942114.14	1A	618		171	171	149	5136		923L	26
TREE	352136.20	0942123.97	1A	590		143	143	121	5804		209R	-22
TREE	352132.93	0942113.47	1A	605		158	158	136	5809		722L	-7
TREE	352134.07	0942116.04	1A	601		154	154	132	5840		481L	-12

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AIRPORT ELEVATION 469

7 PIR 469/469 352000.661N 0942252.348W 2611058

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
REFLECTOR	352013.88	0942129.10	1A	448		-21	-21	-21	-7021		265L	6
ROD ON OL GLIDE SLOPE	352007.06	0942130.51	1A	478		9	9	9	-6800		400R	36
MARKER BOARD	352009.64	0942152.85	1A	447		-22	-22	-22	-5010		142L	2
OL ON LIGHTED WINDSOCK	352003.09	0942159.17	1A	468		-1	-1	-1	-4392		432R	21
POST	352002.39	0942201.50	1A	451		-18	-18	-18	-4190		473R	3
MARKER BOARD	352006.66	0942216.58	1A	455		-14	-14	-14	-3022		145L	3
POLE	352005.35	0942313.30	1A	513		44	44	44	1643		734L	15
OL ON LOCALIZER	351958.13	0942312.34	1A	491		22	22	22	1676		1L	-8
TREE	352004.78	0942314.79	1A	513		44	44	44	1773		697L	13
VENT ON BUILDING	352003.37	0942315.93	1A	506		37	37	37	1889		571L	3
TREE	352005.27	0942322.24	1A	537		68	68	68	2376		840L	24
TREE	352001.72	0942324.18	1A	534		65	65	65	2590		510L	17
TREE	351957.95	0942329.23	1A	528		59	59	59	3062		198L	2
TREE	352001.72	0942330.30	1A	550		81	81	81	3091		588L	23
POLE	352004.20	0942332.10	1A	552		83	83	83	3200		859L	23
SIGN	352000.17	0942335.37	1A	551		82	82	82	3530		498L	15
TREE	351957.91	0942336.26	1A	548		79	79	79	3638		283L	10
SIGN	351951.91	0942336.40	1A	551		82	82	82	3743		314R	11
LIGHT POLE	351950.35	0942338.72	1A	560		91	91	91	3957		441R	16
LIGHT POLE	351944.45	0942338.85	1A	554		85	85	85	4059		1029R	8
OL ON TANK	351950.10	0942359.11	1A	610		141	141	141	5630		207R	32
ANTENNA ON OL TANK	351951.60	0942421.86	1A	607		138	138	138	7470		233L	-7

OC0631

AIRPORT ELEVATION 469

25 PIR 443/445 352012.779N 0942116.938W 0811153

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
MARKER BOARD	352006.66	0942216.58	1A	455		12	10	-14	-4978		145R	3
POST	352002.39	0942201.50	1A	451		8	6	-18	-3809		473L	3
OL ON LIGHTED WINDSOCK	352003.09	0942159.17	1A	468		25	23	-1	-3608		432L	21
MARKER BOARD	352009.64	0942152.85	1A	447		4	2	-22	-2989		142R	2
ROD ON OL GLIDE SLOPE	352007.06	0942130.51	1A	478		35	33	9	-1200		400L	36
REFLECTOR	352013.88	0942129.10	1A	448		5	3	-21	-979		265R	6
GROUND	352017.90	0942112.56	1A	450		7	5	-19	438		456R	2
FENCE POST	352017.40	0942102.50	1A	466		23	21	-3	1253		279R	2
TREE	352026.23	0942040.29	1A	504		61	59	35	3208		880R	1
OL ON POLE	352024.74	0942035.76	1A	526		83	81	57	3556		674R	16
TREE	352028.71	0942032.90	1A	532		89	87	63	3852		1033R	16
OL ON POLE	352026.88	0942032.26	1A	531		88	86	62	3877		843R	14
ANTENNA	352009.77	0941945.88	1A	623		180	178	154	7409		1455L	36
TREE	352010.57	0941944.50	1A	632		189	187	163	7535		1392L	42
OL ON POLE	352008.98	0941942.79	1A	640		197	195	171	7650		1572L	48
TREE	352012.42	0941938.15	1A	634		191	189	165	8083		1287L	33

OC0631

AIRPORT ELEVATION 469

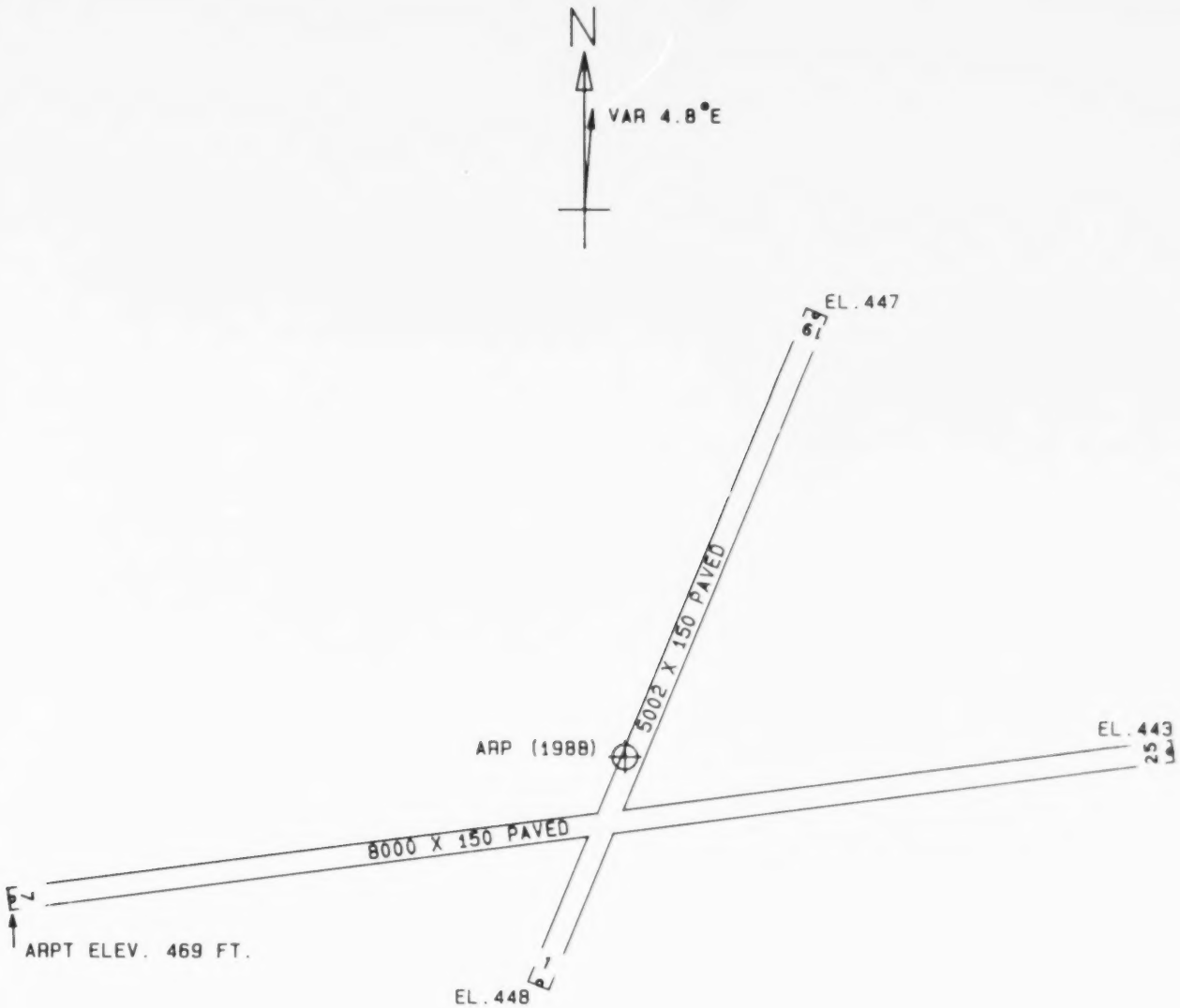
ARP 352011.395N 0942202.019W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ROD ON OL WEATHER DOME	352016.69	0942209.59	1A	509		40	305 40	824
FENCE	352001.72	0942202.19	1A	449		-20	176 3	979
ROD ON OL ANEMOMETER	351959.16	0942157.29	1A	479		10	157 37	1298
ANT AND APT BCN ON CTL TR	351955.67	0942152.44	1A	531		62	148 39	1777
OL ON HANGAR	352011.25	0942227.46	1A	503		34	264 48	2108
OL ON TANK	351947.44	0942205.96	1A	480		11	182 53	2444
OL ON WATER TANK	352029.27	0942222.96	1A	608		139	311 22	2505
TREE	352020.31	0942131.68	1A	487		18	65 28	2670
TREE	352033.38	0942143.52	1A	482		13	29 47	2700
TREE	352040.71	0942155.76	1A	511		42	5 8	3009
TREE	352040.98	0942153.71	1A	493		24	8 10	3070
OL ON TRANSMISSOMETER	352005.97	0942125.00	1A	452		-17	95 20	3116
TREE	352047.19	0942152.24	1A	490		21	7 49	3709
POLE	351935.51	0942144.68	1B	583		114	153 36	3903
TREE	352037.46	0942240.14	1B	696		227	305 3	4114
VENT ON BUILDING	352010.49	0942257.52	1A	519		50	264 4	4599
ROD ON OL ASR	352025.94	0942109.00	1A	542		73	66 42	4633
TREE	352030.18	0942256.48	1B	665		196	288 2	4895
OL ON BUILDING	351948.61	0942254.35	1A	532		63	237 13	4910
TREE	352058.77	0942146.42	1A	509		40	10 18	4961
TREE	352040.75	0942259.98	1B	682		213	296 55	5645
VENT ON TANK	352031.91	0942306.60	1B	643		174	286 24	5738
ANTENNA	352058.45	0942243.92	1B	676		207	319 5	5890
TREE	352027.18	0942050.16	1A	535		66	70 11	6164
TREE	352108.60	0942229.97	1B	661		192	333 23	6230
ANTENNA ON FLOODLIGHT	352049.11	0942314.40	1B	741		272	297 39	7107
TREE	352108.19	0942302.59	1B	704		235	314 3	7626
SIGN	352128.72	0942146.25	1B	605		136	4 41	7927
TREE	351852.52	0942217.66	1B	627		158	184 26	8080
OL ON WATER TANK	352045.20	0942342.15	1B	824		355	287 36	8972
ANTENNA	352046.36	0942343.66	1B	828		359	287 59	9133
OL ON POLE	351953.16	0942010.78	1B	639		170	96 30	9399
TREE	352124.69	0942052.09	1B	650		181	33 13	9407

AIRPORT ELEVATION 469

ARP 352011.395N 0942202.019W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL ON POLE	351939.31	0942011.22	1B	649		180	104 39	9737
TREE	352006.61	0941951.06	1A	626		157	87 44	10861
TREE	351857.15	0942018.38	1B	640		171	126 21	11406
ANTENNA	352143.85	0942321.08	1B	709		240	320 12	11414
OL ON TANK	352125.17	0942353.59	1B	776		307	304 7	11877
TREE	351837.88	0942033.61	2C	659		190	137 25	11961
ANTENNA	352047.00	0942421.50	1B	767		298	282 31	12103
OL ON STANDPIPE	352150.17	0942027.46	2C	716		247	33 18	12692
ANTENNA	352006.92	0941927.00	1B	639		170	87 12	12852
TREE	352122.85	0942410.61	2C	673		204	299 21	12872



TOUCHDOWN ZONE RUNWAY	ELEVATION
1	448
19	447
7	469
25	445

FORT SMITH MUNICIPAL AIRPORT

FORT SMITH, ARKANSAS

(NOT TO SCALE)